



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

ENGINEERING CHANGE REQUEST

ECR 220

Date Opened: 6/10/21 11:46 AM Type: Drawing/Pattern Change Priority: Medium Status: Under Review Reason: Expense: 1000 Target Date: Execution Date: ECR Approval No:	Requested By: Drouin, Steven Program Manager: Lee, Michael Responsible Engineer: Clarke, Jeffery DE Approver*: Provencal, Chris Requester*: Duval, David DM: Lee, Michael ECR Specialist: Drouin, Steven ECR Lead*: Drouin, Steven
RE (R&D): Status Note:	**BRIEF DESCRIPTION**: D350-1080-017/018 SKI BASKET DESCRIPTION/ ADR CONTENT**: Re:MDL-D350-1080,Rev. C A D5763-041 Forward Mounting Beam and D5762-041 Aft Mounting Beam were installed on the first D5810-041 ski basket to check for fit. The D5763-041 Forward Mounting Beam fit as expected. The D5762-041 aft mounting beam was extremely tight on the mounts at both ends of the basket. An original Aero Design 78633-01-02 aft mounting beam was also tried with similar results. The drawings of the basket mounting hoop D5815 and the Aft Mounting Beam D5762 were compared to the original Aero Design drawings 94023 and 78633 respectively. The drawings were found to match. It was found that the spacing between the basket lugs and the slots in the mounting beams will set the lugs at the bottom of the top keyway and at the top of the bottom keyway at the nominal size. This does not leave enough room to easily engage the basket in the aft beam. The keyway locations in the aft beam cannot be changed as it will affect mounting of other equipment. In order to allow the Ski Basket to be installed without modifying the aft mounting beam, the spacing between the lugs on D5815 is increased from 16.88 to 16.91. This increase in spacing is at the top of the original tolerance. The increase in spacing serves to marginally reduce the loads applied to the attachments in the critical down load condition. Conclusion:

CUSTOMER APPROVALS

Customer	Customer Visible	Customer Approval Required	*	Customer Approved
----------	------------------	----------------------------	---	-------------------

ATTACHMENT PAGES

Document Name	Document Note
1080 ADR 2021-06-02.pdf	

PARTS

Part No	Rev	Part Status	Name	Type	Customer Part	Special Comments	Documents	
D350-1080-017		On hold	AS350 Ski Basket Installation, LH	Finished Good	D350-1080-017 D350-1080-017 D350-1080-017 D350-1080-017 D350-1080-017 D350-1080-017 D350-1080-017 D350-1080-017 D350-1080-017 D350-1080-017 D350-1080-017			
D350-1080-018		On hold	AS350 Ski Basket Installation, RH	Finished Good	D350-1080-018 D350-1080-018 D350-1080-018 D350-1080-018			
D5769-041		On hold	Extra Long Basket Assembly, LH	Finished Good				
D5769-042		On hold	Extra Long Basket Assembly, RH	Finished Good				
D5810-041		On hold	XL Basket Body, LH	Finished Good				
D5810-042		On hold	XL Basket Body, RH	Finished Good				
D5815-041		On hold	Attachment Hoop	Sub-assembly				
D5815-3		On hold	Hoop	Sub-assembly				
INVENTORY DISPOSITION								
Part No Revision		Material No	Current Inventory Qty		Purchasing On-Order Qty		Qty Scheduled for Production	
D350-1080-017			1 Quarantine		0 *		1	Update Jobs only when drawing approved
D350-1080-018			0 Quarantine		0 *		2	Update Jobs only when drawing approved
D5769-041			0 Quarantine		0 *		0	Update Jobs only when drawing approved
D5769-042			0 Quarantine		0 *		2	Update Jobs only when drawing approved
D5810-041			0 Quarantine		0 *		0	Update Jobs only when drawing approved
D5810-042			1 Quarantine		0 *		2	Update Jobs only when drawing approved
D5815-041			0 Quarantine		0 *		2	Update Jobs only when drawing approved
D5815-3			4 Quarantine		0 *		0	Update Jobs only when drawing approved
EFFECTS								

Effect Group	Effects
1. Quarantine?	Immediate quarantine required
2. ECR Lead Assessment - Impacted Docs & Output	Drawing Change Required
3. ECR Lead Assessment - Status During ECR	UR - Full Under Review
4. Production Type	In-house production
5A. ECR Lead Assessment - MINOR Changes	Correction of drawing errors
9. Sustaining Cost Grouping	Manufacturing Improvement